

# HistoricBridges.org - National Bridge Inventory Data Sheet

2011 Inventory

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.

Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

## Basic Information

Ohio [39]	Cuyahoga County [035]	Cleveland [16000]	W OF MERWIN AVE (FLATS)	41-29-39 = 41.494167	081-42-12 = - 81.703333
1869345	Highway agency district 12	Owner City or Municipal Highway Agency [04]	Maintenance responsibility	City or Municipal Highway Agency [04]	
Route #Num!	CENTER STREET	Toll On free road [3]	Features intersected	CUYAHOGA RIVER	
Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	0 km = 0.0 mi
2	Movable - Swing [17]	1	Stringer/Multi-beam or girder [02]	Year built	1901
				Year reconstructed	1989
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is eligible for the NRHP. [2]
Total length	105.2 m = 345.2 ft	Length of maximum span	44.2 m = 145.0 ft	Deck width, out-to-out	12.2 m = 40.0 ft
Inventory Route, Total Horizontal Clearance	7.3 m = 24.0 ft	Curb or sidewalk width - left	1.6 m = 5.2 ft	Curb or sidewalk width - right	1.6 m = 5.2 ft
Deck structure type	Open Grating [3]				
Type of wearing surface	Other [9]				
Deck protection					
Type of membrane/wearing surface					

## Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	32.4 metric ton = 35.6 tons
0.3 km = 0.2 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	35 metric ton = 38.5 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	M 13.5 / H 15 [2]

### Functional Details

Average Daily Traffic	4500	Average daily truck traffi	11	%	Year	1975	Future average daily traffic	6246	Year	2028
Road classification	Collector (Urban) [17]		Lanes on structure	2		Approach roadway width	11 m = 36.1 ft			
Type of service on bridge	Highway [1]		Direction of traffic	2 - way traffic [2]		Bridge median				
Parallel structure designation	No parallel structure exists. [N]									
Type of service under bridge	Waterway [5]		Lanes under structure	0		Navigation control	Navigation control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	5.5 m = 18.0 ft		Navigation horizontal clearance	34.4 m = 112.9 ft						
Minimum navigation vertical clearance, vertical lift bridge			Minimum vertical clearance over bridge roadway	4.57 m = 15.0 ft						
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]									
Minimum lateral underclearance on right	0 = N/A					Minimum lateral underclearance on left	0 = N/A			
Minimum Vertical Underclearance	0 = N/A		Minimum vertical underclearance reference feature	Feature not a highway or railroad [N]						
Appraisal ratings - underclearances	N/A [N]									

### Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost

Roadway improvement cost

Length of structure improvement

Total project cost

Year of improvement cost estimate

Border bridge - state

Border bridge - percent responsibility of other state

Border bridge - structure number

## Inspection and Sufficiency

Structure status	Open, no restriction [A]	Appraisal ratings - structural	Equal to present minimum criteria [6]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Satisfactory [6]		
Scour	Countermeasures have been installed to mitigate an existing problem with scour. [7]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	73.2
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions			
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	October 2008 [1008]	Designated inspection frequency	12 Months
Underwater inspection	Unknown [Y00]	Underwater inspection date	June 1989 [0689]
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	January 1996 [0196]
Other special inspection	Not needed [N]	Other special inspection date	

Unit of Measure: <b>English</b> Structure File Number <b>1869345</b> Sufficiency Rating: <b>73.2 fo</b>			<b>Bridge Inventory Information</b> Inventory Bridge Number:CUY CENTR 1003M <b>ON CUYAHOGA RIVER</b>			<b>Report Date 09/17/2012 BM-191 Page: 1 of 2</b> <b>BR. Type STEEL / TRUSS / MOVABLE - SWIN</b> <b>Date of Last Inventory Update: 03/07/2007</b>		
District: <b>12</b> (2)FIPS Code: <b>CLEVELAND</b> (9) Direction of Traffic: <b>2-WAY TRAFFIC</b> (95) Insp: <b>CITY/LOCAL</b> (96) Maint: <b>CITY/LOCAL</b> (97) Routine: <b>CITY/LOC</b>			County <b>CUYAHOGA</b> (10) Temporary: <b>N</b> (101) Location: <b>W OF MERWIN AVE (FLATS)</b> (103) Route On Bridge: <b>MUNICIPAL</b> (11)Truck Network: <b>N</b> (100) Type Serv: (On): <b>HIGHWAY</b>			(102) Facility Carried: <b>CENTER STREET</b> (104) Route Under Bridge: <b>OTHER</b> (12)Parallel: <b>N</b> (Under): <b>WATERWAY</b>		
<b>Inventory Route Data</b>			(63) Main Spans Number: <b>2</b> Approach Spans Number: <b>1</b> Total Spans: <b>3</b>			Type: <b>STEEL / TRUSS / MOVABLE - SWIN</b> Type: <b>STEEL / BEAM / SIMPLE SPAN</b> (65) Max Span: <b>145 Ft</b> (66) Overall Leng: <b>345 Ft</b>		
(3) Route On/Under: <b>ON</b> Route No.: <b>CENTR</b> Dir: Des: <b>BUSINESS</b> Pref: (4) Feature Intersected: <b>CUYAHOGA RIVER</b> (5) County: <b>CUY</b> Mileage: <b>1003M</b> Special Desig: (6) Avg. Daily Traffic(ADT): <b>4,500</b> (7) ADT Year: <b>1975</b> (8) Truck Traf: <b>500</b> (14) NHS: <b>NO - X</b> (15) Corridor: <b>N</b> (16) Functional Class: <b>COLLECTOR-URBAN</b> (19) Strahnt: <b>Not Applicable</b>			(70) Substructure Abut-Rear Matl: <b>CONCRETE AND STONE</b> Type: <b>GRAVITY</b> Abut-Fwd Matl: <b>CONCRETE AND STONE</b> Type: <b>GRAVITY</b> Pier-Pred Matl: <b>STEEL AND CONCRETE</b> Type: <b>CAPPED COLUMN</b> Pier-Other Matl: <b>CONCRETE AND STONE</b> Type: <b>STUB GRAVITY</b> Pier-Other Matl: <b>NONE</b> Type: <b>NONE</b> No of Piers Predominate: <b>01</b> Other: <b>01</b> (86) Stream Velocity: <b>000.0</b> (74) Scour: <b>COUNTERMEAS INSTALLED TO CORRECT PROBLEM</b> (189) Dive: <b>Y Freq: 0</b> Probe: <b>N Freq: 0</b> (75) Chan Prot: <b>SHEET PILING</b> (189) Date of last Dive Insp: <b>06/01/1989</b> (152) Drainage Area: <b>UUU</b> Sq Mi			Fnd: <b>CIP REINF CONCRETE PILES(OTHER DIAMETER)</b> Fnd: <b>CIP REINF CONCRETE PILES(OTHER DIAMETER)</b> Fnd: <b>CIP REINF CONCRETE PILES(OTHER DIAMETER)</b> Fnd: <b>CIP REINF CONCRETE PILES(OTHER DIAMETER)</b> Fnd: <b>OTHER</b> Other: <b>NN</b>		
<b>Intersected Route Data</b>			(22) Route On/Under: Route No.: Dir: Des: Pref: (23) Feature Intersected: (24) County: Mileage: Special Desig: (25) Avg. Daily Traffic(ADT): <b>0</b> (26) ADT Year: (27) Truck Traf: <b>0</b> (28) NHS: - (29) Corridor: (30) Functional Class: (36) Strahnt: <b>Not Applicable</b>			<b>Clearance Under the Bridge</b> (156) Min. Horiz Under Clear: NC: <b>0.0 Ft</b> Card: <b>0.0 Ft</b> (157) Prac Max Vrt Under Clear: <b>12.0 Ft</b> (77) Min Vert Under Clear: NC: <b>0.0 Ft</b> Card: <b>12.0 Ft</b> (78) Min Lat Under Clear: NC: <b>0.0 / 0.0 Ft</b> Card: <b>0.0 / 0.0 Ft</b>		
<b>Clearance On the Bridge</b>			<b>Load Rating Information</b> (88-89) Appraisal					
(154) Min Hriz on Bridge: NC: <b>0.0 Ft</b> Card: <b>24.0 Ft</b> (155) Prac Max Vert On Brg: <b>15.0 Ft</b> (67) Min Vrt Clr On Brg: NC: <b>0.0 Ft</b> Card: <b>15.0 Ft</b> (80) Min Latl Clr: NC: <b>0.0 / 0.0 Ft</b> Card: <b>0.0 / 0.0 Ft</b> (81) Vrt Clr Lft: <b>0.0 Ft</b>			(48) Design Load: <b>H/15</b> (83) Operating: <b>39</b> Ton Inventory: <b>36</b> Ton Ohio Percent of Legal Load <b>150</b> Year of Rating: <b>1989</b> (84) Analysis: <b>WORKING STRESS (WS)</b> (85) Rate Soft: <b>NO SOFTWARE USED</b> Analyzed by: Analysis on Bars: <b>NOT ON BARS [DEFAULT]</b>			(Including calculated Items)  (88) Waterway Adequacy <b>9</b> (89) Approach Alignment <b>8</b> Calc Gen Appraisal: <b>6</b> Calc Deck Geometry: <b>2</b> Calc Underclearance: <b>N</b>		
<b>Structure Information</b>			<b>Approach Information</b>					
(38) Bypass Length: <b>02</b> Miles (39) Latitude: <b>41 Deg 29.7 Min</b> Longitude: <b>81 Deg 42.2 Min</b> (40) Toll: <b>ON FREE ROAD</b> (41) Date Built: <b>07/01/1901</b> (42) Major Rehabilitation: <b>01/01/1989</b> (43) No. Lanes On: <b>2</b> No. Lanes Under: <b>0</b> (44) Horiz Curve: <b>Deg. Min.</b> (45) Skew: <b>0</b> Deg (49) App. Rdw Width: <b>36</b> Ft (50) Brg. Rdw Width: <b>24.0</b> Ft (51) Deck Width: <b>40.0</b> Ft Deck Area: <b>13799</b> Sq. Ft (52) Median Type: <b>NONE / NON BARRIE / NO JOINT</b> (53) Bridge Median: <b>NO MEDIAN</b> (54) Sidewalks: (left) <b>5</b> Ft (right) <b>5</b> Ft (55) Type Curb or Sidewalks: (Left) Matl: <b>STEEL</b> Type: <b>SIDEWALK(&gt;2')</b> (Right) Matl: <b>STEEL</b> Type: <b>SIDEWALK(&gt;2')</b> (56) Flared: <b>N</b> (57) Composite: <b>non-composite</b> (58) Railing: <b>STEEL POST &amp; STEEL PANEL (DECORATIVE)</b> (59) Deck Drainage: <b>DRN TROUGH UNDR OPEN JNTS</b> (60) Deck Type: <b>STEEL GRID - OPEN</b> (61) Deck Protection: External: <b>NONE</b> Internal: <b>NONE</b> (62) Wearing Surface: <b>OTHER</b> Thickness: <b>0.0</b> in (119) Date of Wearing Surface: Slope Protection: <b>NONE-NATURAL PROTECTION(GRASS,BUSHES)</b>			(109) Approach Guardrail: <b>OTHER</b> (110) Approach Pavement: <b>CONCRETE</b> (111) Grade: <b>GOOD</b>			<b>Culvert Information</b> (131) Culvert Type: <b>NONE/NOT APPLICBLE</b> (127) Length: <b>0.0</b> Ft (129) Depth of Fill: <b>0.0</b> Ft (130) Headwalls: <b>NONE</b>		
			<b>General Information</b>					
			(121) Main Member <b>RIVETED BUILT-UP STEEL</b> (122) Moment Plate: <b>NONE</b> (169) Expansion Joint: <b>OPEN (ARMORED)</b> (124) Bearing Devices: <b>ROLLERS/NONE</b> (126) Navigation: <b>Control- Y</b> Vert Clr: <b>18.0</b> Ft Horiz Clear:: <b>113.0</b> Ft (193) Spec Insp: <b>N</b> Freq: <b>0</b> Date: (188) Fracture Critical Insp: <b>Y</b> Freq: <b>12</b> Date: <b>1996-01-22</b> (138) Long Member: <b>TWO TRUSSES (RIVETED)</b> (135) Hinges: <b>OTHER</b> (141) Structural Steel Memb: <b>UNKNOWN</b> (139) Framing: <b>NONE</b> Railing: <b>UNKNOWN</b> Paint: <b>OTHER</b>			Pay Wt: <b>0</b> pounds Prime Loc: <b>UNKNOWN</b> Bridge Dedicated Name:		

Unit of Measure: **English**  
Structure File Number **1869345**  
Sufficiency Rating: **73.2 fo**

Bridge Inventory Information  
Inventory Bridge Number: **CUY CENTR 1003M**  
**ON CUYAHOGA RIVER**

Report Date **09/17/2012** BM-191 Page: 2 of 2  
BR. Type **STEEL/TRUSS/MOVABLE - SWING**  
Date of Last Inventory Update: **03/07/2007**

General Information (Continued)				Original Plans Information			
(---) Hist Significance: <b>NON-REGISTERED HISTORIC BRIDGE</b> (69) NBIS: <b>Y</b>				(142) Fabricator:			
(---) Hist Builder: <b>KING BRIDGE COMPANY</b> Hist Build Year: <b>1901</b>				(143) Contractor:			
(69) Hist Type: <b>RIM BEARING</b>				(144) Ohio Original Construction Project No.:			
(161) Special Features (see below):				(---) Microfilm Reel:			
(105) Border Bridge State: Resp % (106) SFN:				(151) Standard Drawing:			
Proposed Improvements		Programming Info		Aperture Cards: Orig: <b>N</b> Repair: <b>N</b> Fabr: <b>N</b>			
(90) Type Work: -		PID Number:		Plan Information Available: <b>1PLAN INFORMATION AVAILABLE</b>			
		PID Status:		(153) Repair Projects			
(90) Length: Ft		PID Date:		1. / <b>020</b>		2. / <b>MMM</b>	
(90) Bridge Cost (\$1000s): <b>0</b>				4.		6.	
(90) Roadway Cost (\$1000s): <b>0</b>				7.		8.	
(90) Total Project Cost (\$1000s): <b>0</b>		(90) Year:		10.		9.	
(91) Future ADT (On Bridge): <b>0</b>		(92) Year of Future ADT: <b>2028</b>					
Inspection Summary		(I-69) Survey Items		Utilities		Special Features	
(I-8) Deck: <b>6</b>	Railings: <b>1 MEETS CURRENT STANDARDS</b>	(I-46) Electric: <b>U</b>	(161) Lighting: <b>N</b>				
(I-32) Superstructure: <b>6</b>	Transitions: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	Gas: <b>U</b>	Fencing: <b>N</b>				
(I-42) Substructure: <b>7</b>	Guardrail: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	Sanitary Sewer: <b>U</b>	Glare-Screen: <b>N</b>				
(I-50) Culvert: <b>7</b>	Rail Ends: <b>0 DOES NOT MEET CURRENT STANDARDS</b>	Telephone: <b>U</b>	Splash-Guard: <b>N</b>				
(I-54) Channel: <b>8</b>	In Depth: <b>N NONE N/A</b>	TV Cable: <b>U</b>	Catwalks: <b>N</b>				
(I-60) Approaches: <b>7</b>	Fracture Critical: <b>N NONE N/A</b>	Water: <b>U</b>	Other-Feat: <b>U</b>				
(I-66) General Appraisal: <b>6</b>	Scour Critical: <b>N NONE N/A</b>	Other: <b>U</b>	(184) Signs-on: <b>N</b>				
(I-66) Operational Status: <b>A</b>	Critical Findings: <b>N NONE N/A</b>		Signs-Under: <b>N</b>				
Inspection Date: <b>09/20/2011</b>	Insp. Update Date: <b>01/17/2012</b>		(162) Fence-Ht: <b>0.0 Ft</b>				
(94) Desig Insp Freq: <b>12 Months</b>			(163) Noise Barr: <b>N</b>				
SFNs Replacing this retired bridge: -				INV Field Bridge Marker: <b>CUY-CENTR-1003M-</b> INT Field Bridge Marker: <b>---</b>			
SFNs That where replaced by this bridge: -							
This bridge was retired and copied to:							
The bridge was copied from:							

PONTIS CoRe elements and Condition States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
		0						

(\*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
BRIDGE INSPECTION REPORT

BR-86 REV 02-95

1

8

6

9

3

4

5

1  
Structure File Number7

Bridge Number

CUY CENTR1003M

CLEVELAND

Date Built

07/01/1901 - 1989

District

12

Bridge Type

STEEL/TRUSS/MOVABLE - SWIN

Type Service

1

15 CUYAHOGA RIVER

CUY

DECK		Out/Out 40.0		THCK = 0.0		
1. Floor	5-STEEL GRID - OPEN	8	2	2. Wearing Surface	0-OTHER	41
3. Curbs, Sidewalks, Walkways		2-STEEL	2	W.S. Date =		
		2-STEEL	9	4. Median		42
5. Railing		6-STEEL POST & STEEL PAN	10	6. Drainage		5-DRN TROUGH UNDR OPEN J
			2			43
7. Expansion Joints		5-OPEN (ARMORED)	11	8. Summary		44
			1			6
SUPERSTRUCTURE		MAX.SPAN=145				
9. Alignment			12	10. Beams/Girders/Slab		2-RIVETED BUILT-UP STEEL
			2			45
11. Diaphragms or Crossframes		TOT.LGTH=345	13	12. Joists/Stringers		46
			2			2
13. Floor Beams			14	14. Floor Beam Connections		47
			2			2
15. Verticals			15	16. Diagonals		48
			2			2
17. End Posts			16	18. Top Chord		49
			1			1
19. Lower Chord			17	20. Lower Lateral Bracing		50
			1			
21. Top Lateral Bracing			18	22. Sway Bracing		51
			2			1
23. Portals			19	24. Bearing Devices		1-ROLLERS N-NONE
			1			52
25. Arch			20	26. Arch Columns or Hangers		53
27. Spandrel Walls			21	28. Protective Coating System		TYPE = 0-OTHER DATE = 01/01/1989
						54
29. Pins/Hangers/Hinges			22	30. Fatigue Prone Connections		55
			2			1
31. Live Load Response			23	32. Summary		56
			S			6
SUBSTRUCTURE		3-CONCRETE AND STONE		PIERS=2		SPANS = 2
33. Abutments		3-CONCRETE AND STONE	24	34. Abutment Seats		57
			2			1
35. Piers		TYPE = 7-STEEL AND CONCRETE	25	36. Pier Seats		58
			1			1
37. Backwalls			26	38. Wingwalls		ABUTMENT:=CIP REI / CIP REI
			2			59
39. Fenders and Dolphins			27	40. Scour		7-COUNTERMEAS INSTALLED
			2			60
41. Slope Protection		N-NONE	28	42. Summary		DIVE DT=06/01/1989
						62
						7
CULVERTS						
43. General			29	44. Alignment		63
45. Shape			30	46. Seams		64
47. Headwalls or Endwalls			31	48. Scour		65
49.			32	50. Summary		66
CHANNEL				3-SHEET PILING		
51. Alignment			33	52. Protection		67
			1			1
53. Waterway Adequacy			34	54. Summary		68
			1			8
APPROACHES						
55. Pavement		1-CONCRETE	35	56. Approach Slabs		69
			2			1
57. Guardrail		0-OTHER	36	58. Relief Joints		70
			2			
59. Embankment		BRDG.WIDTH=24.0	37	60. Summary		PCT.LEGAL=150
			1			71
						7
GENERAL				ROUTINE.RESP: 4-CITY/LOCAL		
61. Navigation Lights			38	62. Warning Signs		MAINT.RESP: 4-CITY/LOCAL
		MVC ON=15.0 UND=0000				72
63. Sign Supports			39	64. Utilities		73
			1			6
65. Vertical Clearance			40	66. General Appraisal & Operational Status		74
			1			6
						A

67. INSPECTED BY

68. REVIEWED BY

SIGNED

76 PE

J

D

78 INITIALS

SIGNED

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81 PE

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83 INITIALS

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